

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): Variable focus spectacles comprising a spectacle frame and at least one variable power lens, wherein said lens comprises a transparent rear wall-(110), a transparent front wall-(120), a cavity-(140) formed between the transparent front wall-(120) and the transparent rear wall-(110), first and second immiscible fluids of differing refractive index contained within said cavity, and electrodes-(150,160) to which a potential difference may be applied to change a contact angle between an interface layer of the two fluids and the front wall of the lens.

Claim 2 (currently amended): The variable focus spectacles of claim 1, wherein the transparent front wall (120) joins with the transparent rear wall-(110) at peripheral regions thereof to form an acute internal angle at their joining region.

Claim 3 (previously presented): The variable focus spectacles of claim 1, wherein the first and second fluids are of substantially identical specific gravity.

Claim 4 (currently amended): The variable focus spectacles of claim 1, wherein the electrodes comprise a ring-type electrode-(150) which extends around an internal periphery of the transparent front wall-(120), so as to form a first electrical contact and a further electrode adjacent an internal surface of the rear wall.

Claim 5 (currently amended): The variable focus spectacles of claim 1, wherein the first fluid is the fluid nearest the transparent front wall-(120), whilst the second fluid is the fluid having a boundary with the

transparent rear wall—(110) and the first fluid comprises an oil, whilst the second fluid comprises an electrolyte.

Claim 6 (original): The variable focus spectacles of claim 5, wherein the second fluid comprises a water /salt mixture having a refractive index different to the refractive index of the first fluid.

Claim 7 (currently amended): The variable focus spectacles of claim 1, further comprising adjustment means for adjusting the strength of an electric field to be applied between the electrodes—(150,160).

Claim 8 (original): The variable focus spectacles of claim 7, wherein the adjustment means comprises manual adjustment means.

Claim 9 (original): The variable focus spectacles of claim 8, wherein the manual adjustment means comprises a variable resistor.

Claim 10 (previously presented): The variable focus spectacles of claim 7, wherein the adjustment means comprises automatic adjustment means for varying the focal length of the spectacles dependent upon a perceived distance of an object to be viewed.

Claim 11 (currently amended): The variable focus spectacles of claim 10, wherein the automatic adjustment means comprises a focal length determiner-(230), a control unit-(280) and a power supply V, wherein a reflected range finding signal from the focal length determiner-(230) is processed by the control unit-(280) to determine the desired focal length of the glasses and an appropriate output signal is passed to the electrodes-(150,160) to bring about auto-focusing.

Claim 12 (currently amended): The variable focus spectacles of claim 11, wherein the focal length determiner-(230) comprises a transducer mounted on the spectacle frame.

Claim 13 (currently amended): The variable focus spectacles of claim 7, further comprising lens strength determining means for measuring the strength of the lenses {100A, 100B}.

Claim 14 (currently amended): Variable focus lens comprising a transparent rear wall-{110}, a transparent front wall-{120}, a cavity-{140} formed between the transparent front wall-{120} and the transparent rear wall {110}, first and second immiscible fluids of differing refractive index contained within said cavity, and electrodes-{150,160} to which a potential difference may be applied to change a contact angle between an interface layer of the two fluids and the front wall of the lens.